

FOS / c-FOS Antibody (clone 1H8)
Mouse Monoclonal Antibody
Catalog # ALS14539**Specification**

FOS / c-FOS Antibody (clone 1H8) - Product Information

Application	IHC
Primary Accession	P01100
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	41kDa KDa

FOS / c-FOS Antibody (clone 1H8) - Additional Information**Gene ID** 2353**Other Names**

Proto-oncogene c-Fos, Cellular oncogene fos, G0/G1 switch regulatory protein 7, FOS, G0S7

Target/Specificity

Human FOS / c-FOS

Reconstitution & Storage

For long term, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

FOS / c-FOS Antibody (clone 1H8) is for research use only and not for use in diagnostic or therapeutic procedures.

FOS / c-FOS Antibody (clone 1H8) - Protein Information**Name** FOS**Synonyms** G0S7**Function**

Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. In the heterodimer, FOS and JUN/AP-1 basic regions each seems to interact with symmetrical DNA half sites. On TGF-beta activation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex at the AP1/SMAD-binding site to regulate TGF-beta-mediated signaling. Has a critical function in regulating the development of cells destined to form and maintain the skeleton. It is thought to have an important role in signal transduction, cell proliferation and differentiation. In growing cells, activates phospholipid synthesis, possibly by activating CDS1 and PI4K2A. This activity requires Tyr-dephosphorylation and association with the endoplasmic reticulum.

Cellular Location

Nucleus. Endoplasmic reticulum. Cytoplasm, cytosol. Note=In quiescent cells, present in very small amounts in the cytosol. Following induction of cell growth, first localizes to the endoplasmic reticulum and only later to the nucleus. Localization at the endoplasmic reticulum requires dephosphorylation at Tyr-10 and Tyr- 30

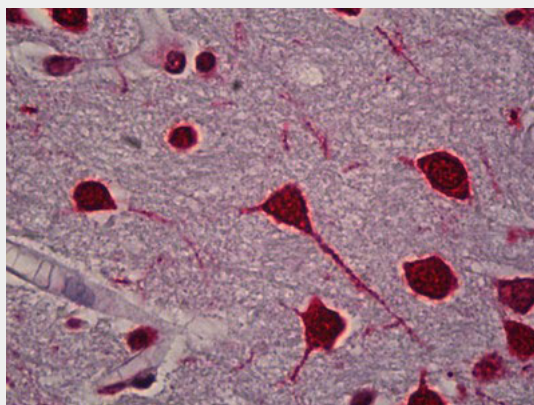
Volume

50 µl

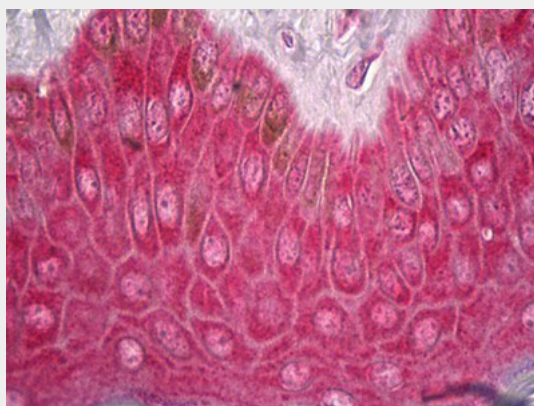
FOS / c-FOS Antibody (clone 1H8) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FOS / c-FOS Antibody (clone 1H8) - Images

Anti-FOS / c-FOS antibody IHC of human brain, cortex.



Anti-FOS / c-FOS antibody IHC of human skin.

FOS / c-FOS Antibody (clone 1H8) - Background

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FOS / c-FOS Antibody (clone 1H8) - References

van Straaten F., et al. Proc. Natl. Acad. Sci. U.S.A. 80:3183-3187(1983).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Heilig R., et al. Nature 421:601-607(2003).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Roux P., et al. Oncogene 6:2155-2160(1991).